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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,786 02/04/2004		Osamu Miyazawa	P4749.D1 4369	
20178 7	7590 12/02/2004	EXAMINER		
EPSON RESI	EARCH AND DEVE	BUDD, MARK OSBORNE		
INTELLECTU	JAL PROPERTY DEP	Γ		
150 RIVER OAKS PARKWAY, SUITE 225			ART UNIT	PAPER NUMBER
SAN JOSE CA 95134			2834	

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	No.	Applicant(s)				
		10/771,786		MIYAZAWA ET AL.				
		Examiner		Art Unit				
		Mark Budd		2834				
Period fo	The MAILING DATE of this communication apported by the second	pears on the o	cover sheet with the co	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)[Responsive to communication(s) filed on	•						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	s action is no	n-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠ 5)⊠ 6)⊠	 4) ⊠ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ⊠ Claim(s) 4 is/are allowed. 6) ⊠ Claim(s) 1 and 3 is/are rejected. 7) ⊠ Claim(s) 2 is/are objected to. 							
Applicat	ion Papers							
9)□	The specification is objected to by the Examine	er.						
	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/622,685. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attach	Me)							
Attachmen 1) ⊠ Notic	t(s) e of References Cited (PTO-892)	4) Interview Summary (PTO 4121				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Dat	e´.				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 9-7-04.8-6-0488-16.	5 6) Notice of Informal Pa) Other:	tent Application (PTO	-152)			

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over lino.

lino, figs. 11 and 12 teaches a piezoelectric actuator comprising a base frame 33, a motion stimulator including a support member #26 and a vibrating plate which includes a piezoelectric element #14, a rotor #116 and an elastic element #32 for biasing the rotor tward the stator. Iino doesn't explicitly show a "reinforcing section" associated with the piezoelectric plates. However, providing reinforcement for piezoelectric elements per se has long been practiced (Official notice taken) to protect the element from breakage due to external sources, to pre-load the piezo element to prevent it from going into tension (where it is mechanically weak), and/or to protect the piezo element from wear or abrasion. Thus, for any of these known reasons it would have been obvious to one of ordinary skill in the art to provide a reinforcing section to the piezoelectric plates of lino. Regarding claim 3, the wherein clause has not been given patentable weight as it is merely a statement of desired function without any commensurate structure to enable performance of the function.

Claim 2 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claim 4 is allowed.

Further cited of interest are lino (769) (fig 8c), Zumeris (fig. 7), Kasuga, Diefenbach and Luthier.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark O. Budd whose telephone number is (571)272-2019. The examiner can normally be reached on Monday-Thursday from 6am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramirez, can be reached on ***. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Budd/ds

11/24/04

PRIMARY EXAMINER
ABT HALL 212

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